

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, ~~SAILING SHIP, TANKER.~~)

19466.

Ship's Name WIMBLEDON	Official Number 166330	Nationality and Port of Registry British London	Gross Tonnage 1587 (anticipatory) 1598	Date of Build 1937	Port of Survey Leith
Moulded Dimensions: Length 245' 0" Breadth 39' 33" Depth 18' 5" other D 22' 5" R.Q.D.					Date of Survey while building
Moulded displacement at moulded draught = 85 per cent. of moulded depth 3245 tons					Surveyor's Signature Ern E. E. E.
Coefficient of fineness for use with Tables .75					Particulars of Classification 1100A1 "with freeboard"

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... 18' 50"	(a) Where D is greater than Table depth (D - Table depth) R = (18.55 - 16.33) 1.884 = +4' 18"	Moulded Breadth (B) 39' 33"
Stringer plate05	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$ 9' 43"
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 9' 5"
Depth for Freeboard (D) = 18' 55"		Difference = .07"
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) =$.07 x .229 = Nil

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
.. overhang ...					
R.Q.D. enclosed ...	150' 9"	150' 90"	3' 95"	3.95/3.967	150' 25"
.. overhang ...					
Bridge enclosed ...	15' 7"	15' 70"	7'	✓	15' 70"
.. overhang aft ...					
.. overhang forward ...					
F'cle enclosed ...	22' 3"	22' 30"	6'	✓	22' 30"
.. overhang ...					
Trunk aft ...					
.. forward ...					
Tonnage opening aft ...					
.. forward ...					
Total ...	188' 9"	188' 90"			188' 25"

Standard Height of Superstructure **Bridge** **6' 0"**
R.Q.D. **3' 967"**

Deduction for complete superstructure **30' 5"**

Percentage covered $\frac{S}{L} =$ **77.10**
 $\frac{S_1}{L} =$ **77.10**
 $\frac{E}{L} =$ **76.83**

Percentage from Table, Line A. and B **71.40**
(corrected for absence of forecastle (if required))

Percentage from Table, Line B.
(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = **30.5 x .7140 = -21' 78"**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	34.50	1		34.50	12.0	12.0	1		12.00
$\frac{1}{2}$ L from A.P. ...	15.35	4		61.40	5.35	5.35	4		21.40
$\frac{3}{8}$ L " ...	3.80	2		7.60	1.32	1.32	2		2.64
Amidships ...	-	4		-	-	-	4		-
$\frac{3}{8}$ L from F.P. ...	7.59	2		15.18	5.5	5.50	2		11.00
$\frac{1}{2}$ L " ...	30.705	4		122.82	22.25	22.25	4		89.00
F.P. ...	69.00	1		69.00	50.0	50.00	1		50.00
Total ...				310.50					186.04

Mean actual sheer aft = **Deficient**
Mean standard sheer aft

Mean actual sheer forward = **Deficient**
Mean standard sheer forward

Length of enclosed superstructure forward of amidships = **Deficient**
aft of " **Sheers.**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) =$ **$\frac{124.46}{18} \left(\frac{75-38.55}{2L} \right) = +2' 52"$**
If limited on account of midship superstructure. **✓**

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft. **✓**

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line 216' 6 1/2" MLD 16' 7 3/4" EX	Correction for coefficient .750 + .68
RAISED QUARTER	$\Delta =$ 34' 29" MLD	1.36
Depth to Freeboard Deck = 22' 55"	Tons per inch immersion at summer load water line	1.36
Summer freeboard = 6' 02"	T = 19' 52" MLD	4' 18"
Moulded draught (d) = 16' 53"	Deduction = $\frac{\Delta}{40T}$ inches 19' 55"	2' 52"
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 4' 13"	4' 38" MLD	4' 34"
Addition for Winter North Atlantic Freeboard (if required) = 6' 4"	4' 42" EX	6' 42"
	4' 1/2"	6' 1/2"
		61' 12" 21' 78" + 39' 34" = 72' 25"

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line Wood, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc ...	8 3/4"	Tropical Fresh Water Freeboard ...
Fresh Water Line " " ...	4 1/2"	Fresh Water " " ...
Tropical Line " " ...	4 1/4"	Tropical " " ...
Winter Line below " " ...	4 1/4"	Winter " " ...
Winter North Atlantic Line " " ...	6 1/4"	Winter North Atlantic " " ...

B

A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

Trade of ship

collier

Names of sister ships

✓

Builder's name and yard number

The Burntisland S.B.C. & Co

N^o 219

Owners

The Wandsworth & District Gas Co.

Fee £



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Lloyd's Register
Foundation

Wimbledon.